

A 4x4 grid of binary strings. The top row contains four 'SSSS' strings. The second row contains three 'SSSS' strings and one 'YYYY' string. The third row contains two 'SSSS' strings, one 'YYYY' string, and one 'SSSS' string. The bottom row contains one 'SSSS' string, one 'YYYY' string, and three 'SSSS' strings. The strings are composed of the characters 'S' and 'Y'.

\*\*FILE\*\* ID\*\*SYSSCHEVT

L 1

SYS  
V04

(1)	82	SCHEDULE WAKEUP
(1)	165	SET TIMER
(1)	247	BUILD PROTOTYPE TIME QUEUE ENTRY

0000 1 .TITLE SYSSCHEVT - SYSTEM SERVICES TO SCHEDULE EVENTS  
0000 2 .IDENT 'V04-000'  
0000 3  
0000 4  
0000 5 \*\*\*\*\*  
0000 6 \*  
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0000 26 \*\*\*\*\*  
0000 27  
0000 28 D. N. CUTLER 4-OCT-76  
0000 29  
0000 30  
0000 31 V02-004 MLJ41905 Martin L. Jack 31-Jan-1982  
0000 32 Record in TQE whether the expiration time was specified as an  
0000 33 absolute or delta time. This now affects processing in the  
0000 34 \$SETTIM service.  
0000 35  
0000 36 03 RIH0033 R. I. HUSTVEDT 18-OCT-1979  
0000 37 MOVE TQCNT FROM PCB TO JIB.  
0000 38  
0000 39  
0000 40 02 RIH23909 R. I. HUSTVEDT 14-MAY-1979  
0000 41 Remove superfluous branch after SCH\$CLREF due to change in  
0000 42 interface to SCH\$CLREF.  
0000 43  
0000 44 SYSTEM SERVICES TO SCHEDULE EVENTS  
0000 45  
0000 46 SCHEDULE WAKEUP  
0000 47 SET TIMER  
0000 48  
0000 49 MACRO LIBRARY CALLS  
0000 50  
0000 51  
0000 52 \$ACBDEF :DEFINE ACB OFFSETS  
0000 53 \$IPLDEF :DEFINE INTERRUPT PRIORITY LEVELS  
0000 54 \$JIBDEF :DEFINE JIB OFFSETS  
0000 55 \$PCBDEF :DEFINE PCB OFFSETS  
0000 56 \$PRDEF :DEFINE PROCESSOR REGISTERS  
0000 57 \$PSLDEF :DEFINE PROCESSOR STATUS FIELDS

0000	58	\$RSNDEF	:DEFINE RESOURCE WAIT NUMBERS
0000	59	\$SSDEF	:DEFINE SYSTEM STATUS VALUES
0000	60	\$TQEDEF	:DEFINE TQE OFFSETS
0000	61		
0000	62	:	
0000	63	: LOCAL SYMBOLS	
0000	64	:	
0000	65	: ARGUMENT LIST OFFSET DEFINITIONS FOR SCHEDULE WAKEUP	
0000	66	:	
0000	67		
00000004	0000	68 PIDADR=4	:ADDRESS OF PROCESS IDENTIFICATION
00000008	0000	69 LOGNAM=8	:ADDRESS OF PROCESS NAME STRING DESCRIPTOR
0000000C	0000	70 WKDAYTIM=12	:ADDRESS OF DELTA TIME TO EXPIRATION
00000010	0000	71 WKREPTIM=16	:ADDRESS OF DELTA TIME TO REPEAT EXPIRATION
0000	72		
0000	73	:	
0000	74	: ARGUMENT LIST OFFSET DEFINITIONS FOR SET TIMER	
0000	75	:	
0000	76		
00000004	0000	77 EFN=4	:EVENT FLAG NUMBER
00000008	0000	78 TMDAYTIM=8	:ADDRESS OF DELTA TIME TO EXPIRATION
0000000C	0000	79 ASTADR=12	:ADDRESS OF AST ROUTINE
00000010	0000	80 REQIDT=16	:REQUEST IDENTIFICATION

0000 82 .SBTTL SCHEDULE WAKEUP  
 0000 83 :+  
 0000 84 : EXESSCHDWK - SCHEDULE WAKEUP  
 0000 85 :  
 0000 86 : THIS SERVICE PROVIDES THE CAPABILITY TO SCHEDULE A WAKE UP FOR A PROCESS  
 0000 87 : THAT WILL OCCUR AT A SPECIFIED TIME AND OPTIONALLY BE REPEATED AT A FIXED  
 0000 88 : INTERVAL.  
 0000 89 :  
 0000 90 : INPUTS:  
 0000 91 :  
 0000 92 : PIDADR(AP) = ADDRESS OF PROCESS IDENTIFICATION.  
 0000 93 : LOGNAM(AP) = ADDRESS OF PROCESS NAME STRING DESCRIPTOR.  
 0000 94 : WKDAYTIM(AP) = ADDRESS OF DELTA TIME TO EXPIRATION.  
 0000 95 : WKREPTIM(AP) = ADDRESS OF DELTA TIME TO REPEAT EXPIRATION.  
 0000 96 :  
 0000 97 : R4 = CURRENT PROCESS PCB ADDRESS.  
 0000 98 :  
 0000 99 : OUTPUTS:  
 0000 100 :  
 0000 101 : R0 LOW BIT CLEAR INDICATES FAILURE TO SCHEDULE WAKE UP REQUEST.  
 0000 102 :  
 0000 103 : R0 = SSS ACCVIO - EXPIRATION TIME, DELTA REPEAT TIME, PROCESS  
 0000 104 : NAME STRING, OR PROCESS NAME STRING DESCRIPTOR  
 0000 105 : CANNOT BE READ BY CALLING ACCESS MODE, OR PROCESS  
 0000 106 : IDENTIFICATION CANNOT BE WRITTEN BY CALLING ACCESS  
 0000 107 : MODE.  
 0000 108 :  
 0000 109 : R0 = SSS EXQUOTA - PROCESS HAS INSUFFICIENT AST QUOTA  
 0000 110 : REMAINING TO SCHEDULE WAKE UP.  
 0000 111 :  
 0000 112 : R0 = SSS INSFMEM - SUFFICIENT SYSTEM DYNAMIC MEMORY DOES NOT  
 0000 113 : EXIST TO ALLOCATE TIME QUEUE ENTRY AND IMPLICIT  
 0000 114 : RESOURCE WAIT IS NOT ENABLED.  
 0000 115 :  
 0000 116 : R0 = SSS IVLOGNAM - ZERO OR GREATER THAN MAXIMUM LENGTH  
 0000 117 : PROCESS NAME STRING SPECIFIED.  
 0000 118 :  
 0000 119 : R0 = SSS \_IVTIME - POSITIVE DELTA REPEAT TIME SPECIFIED.  
 0000 120 :  
 0000 121 : R0 = SSS NONEXPR - NONEXISTENT PROCESS OR INVALID PROCESS  
 0000 122 : IDENTIFICATION SPECIFIED.  
 0000 123 :  
 0000 124 : R0 = SSS NOPRIV - PROCESS DOES NOT HAVE PRIVILEGE TO WAKE  
 0000 125 : SPECIFIED PROCESS.  
 0000 126 :  
 0000 127 : R0 LOW BIT SET INDICATES SUCCESSFUL COMPLETION.  
 0000 128 :  
 0000 129 : R0 = SSS NORMAL - NORMAL COMPLETION.  
 0000 130 :  
 0000 131 :  
 0000 132 : .ENABL LSB  
 0000 133 : .ENTRY EXESSCHDWK,^M<R2,R3,R4,R5,R6,R7,R8,R9>  
 0000 134 : BSBW EXESNAMPID :GET TARGET PROCESS ID  
 0000 135 : SETIPL #0 :ALLOW INTERRUPTS  
 0000 136 : BLBC R0,20\$ :IF LBC INVALID ARGUMENT  
 0000 137 : MOVL R1,R9 :SET TARGET PROCESS ID  
 0000 138 : MOVZBL #TQESC\_WKSNGL,R8 :SET SINGLE SHOT WAKEUP REQUEST

03FC  
FFF8' 30 0002  
56 50 E9 0008  
59 51 D0 0008  
58 02 9A 000E

55 10 AC	00 0011	13C	MOVL	WKREPTIM(AP),R'	:GET ADDRESS OF DELTA REPEAT TIME
33	13 0015	14	BEQL	10\$	:IF EQL NONE SPECIFIED
50 0C	3C 0017	141	MOVZWL	#SS\$ ACCVIO,RO	ASSUME ACCESS VIOLATION
50 0184 8F	3C 0020	142	IFNORD	#8, (R5), 20\$	CAN DELTA REPEAT TIME BE READ?
55 65	7D 0025	143	MOVZWL	#SS\$ IVTIME,RO	ASSUME INVALID REPEAT TIME
20	13 0028	144	MOVQ	(R5),R5	GET REPEAT TIME
35	14 002A	145	BEQL	10\$	:IF EQL NONE SPECIFIED
58 06	9A 002C	147	MOVZBL	#TQESC_WKREPT,R8	:IF GTRU INVALID REPEAT TIME
56 56	CE 002F	148	MNEGGL	R6,R6	SET REPEAT WAKEUP REQUEST
55 55	CE 0032	149	MNEGGL	R5,R5	NEGATE REPEAT TIME
56 00	D9 0035	150	SBWC	#0, R6	
10	12 0038	151	BNEQ	10\$	
55 000186A0 8F	D1 003A	152	CMPL	#10*1000*10,R5	:IF NEQ REPEAT TIME GREATER THAN 10MS
07	1B 0041	153	BLEQU	10\$	REPEAT TIME GREATER THAN 10MS?
55 000186A0 8F	D0 0043	154	MOVL	#10*1000*10,R5	:IF LEQU YES
57 0C AC	D0 004A	155 10\$:	MOVL	WKDAYTIME(AP),R7	SET REPEAT TIME TO 10MS
54 0000 CF	D0 004E	156	MOVL	W\$CH\$GL_CURPCB,R4	GET ADDRESS OF DELTA EXPIRATION TIME
0093	30 0053	157	BSBW	BUILDTQE	GET CURRENT PROCESS PCB ADDRESS
38 A4	B5 0056	158	TSTW	PCBSW_ASTCNT(R4)	CHECK ACCESSIBILITY OF DAY TIME
68	15 0059	159	BLEQ	50\$	AST QUEUE ENTRY QUOTA EXCEEDED?
9E	16 005B	160	JSB	@(SP)+	:IF LEQ YES
38 A4	B7 005D	161	DECW	PCBSW_ASTCNT(R4)	ALLOCATE AND FILL IN TIME QUEUE ENTRY
05	0060	162	RSB		UPDATE AVAILABLE AST QUEUE ENTRIES
04	0061	163 20\$:	RET		

0062 165 .SBTIL SET TIMER  
 0062 166 :+ EXESSETIMR - SET TIMER  
 0062 167 : THIS SERVICE PROVIDES THE CAPABILITY TO SCHEDULE THE SETTING OF AN EVENT  
 0062 168 : FLAG AND DECLARATION OF AN AST TO OCCUR AT A SPECIFIED TIME.  
 0062 169 :  
 0062 170 :  
 0062 171 :  
 0062 172 :  
 0062 173 :  
 0062 174 :  
 0062 175 :  
 0062 176 :  
 0062 177 :  
 0062 178 :  
 0062 179 :  
 0062 180 :  
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 0062 197 :  
 0062 198 :  
 0062 199 :  
 0062 200 :  
 0062 201 :  
 0062 202 :  
 0062 203 :  
 0062 204 :  
 0062 205 .ENTRY EXESSETIMR, ^M<R2,R3,R4,R5,R6,R7,R8,R9,R10,R11>  
 0062 206 MOVL TMDAYTIM(AP),R7 ;GET ADDRESS OF DELTA EXPIRATION TIME  
 0062 207 MOVZBL #TQESC TMSNGL,R8 ;SET SINGLE SHOT TIMER REQUEST  
 0062 208 MOVL PCB\$L PID(R4),R9 ;SET TARGET PROCESS ID  
 0062 209 MOVZBL EFN(AP),R3 ;GET EVENT FLAG NUMBER  
 0062 210 PUSHL R3 ;SAVE EVENT FLAG NUMBER  
 0062 211 BSBW SCH\$CLREF ;CLEAR SPECIFIED EVENT FLAG  
 0062 212 BSBB BUILDTQE ;CHECK ACCESSIBILITY OF DAY TIME  
 0062 213 MOVL REQIDT(AP),R11 ;GET REQUEST IDENTIFICATION  
 0062 214 MOVL ASTADR(AP),R10 ;GET ADDRESS OF AST ROUTINE  
 0062 215 BEQL 30\$ ;IF EQL NONE SPECIFIED  
 0062 216 TSTW PCB\$W\_ASTCNT(R4) ;AST QUEUE ENTRY QUOTA EXCEEDED?  
 0062 217 BLEQ 50\$ ;IF LEQ YES  
 0062 218 30\$: SETIPL #IPL\$\_SYNCH ;RAISE IPL TO SYNCH LEVEL  
 0062 219 MOVL PCB\$L\_JIB(R4),R1 ;GET ADDRESS OF JIB  
 0062 220 TSTW JIB\$W\_TQCNT(R1) ;ANY TIMER QUOTA REMAINING?  
 0062 221 BEQL 70\$ ;IF EQL NO



00E9 247 .SBTTL BUILD PROTOTYPE TIME QUEUE ENTRY  
 00E9 248 :  
 00E9 249 : SUBROUTINE TO CHECK ARGUMENTS, ALLOCATE TIME QUEUE ENTRY, AND FILL IN  
 00E9 250 : PROTOTYPE TIME QUEUE ENTRY.  
 00E9 251 :  
 00E9 252 :  
 00E9 253 BUILD TQE:  
 50 0C 3C 00E9 254 MOVZWL #SS\$ ACCVIO, R0 :BUILD TIME QUEUE ENTRY  
 00EC 255 IFNORD #8, (R7), 40\$ :ASSUME ACCESS VIOLATION  
 00F2 256 SETIPL #IPL\$ ASTDEL :CAN EXPIRATION TIME BE READ?  
 9E 16 00F5 257 JSB @ (SP) + :RAISE TO AST DELIVERY LEVEL  
 FF06' 30 00F7 258 BSBW EXE\$ ALLOC TQE :CHECK QUOTAS  
 67 50 00FA 259 BLBC R0, 40\$ :ALLOCATE TIME QUEUE ENTRY  
 20 A2 55 7D 00FD 260 MOVQ R5, TQE\$0 DELTA(R2) :IF LBC ALLOCATION FAILURE  
 58 08 0101 261 BISB3 #TQE\$M\_ABSOLUTE, R8, TQE\$B\_RQTYPE(R2) :INSERT REPEAT TIME  
 0C A2 59 00 0106 262 MOVL R9, TQE\$L PID(R2) :SET REQUEST TYPE, assume absolute  
 2C A2 60 A4 00 010A 263 MOVL PCB\$L PID(R4), TQE\$L\_RQPID(R2) :INSERT TARGET PROCESS ID  
 50 67 7D 010F 264 MOVQ (R7), R0 :INSERT REQUESTER PROCESS ID  
 0112 265 :MAKE SURE EXPIRATION TIME IS IN MEMORY  
 0112 266 :  
 0112 267 ASSUME IPL\$\_SYNCH EQ IPL\$\_TIMER  
 0112 268 :  
 58 0000'CF 7D 0115 269 SETIPL #IPL\$ SYNCH :SYNCHRONIZE ACCESS TO SYSTEM DATA BASE  
 50 50 7D 011A 270 MOVQ W\$EXE\$GQ\_SYSTIME, R8 :GET CURRENT ABSOLUTE TIME  
 13 18 011D 271 MOVQ R0, R0 :GET EXPIRATION TIME  
 0B A2 08 8A 011F 272 BGEQ 10\$ :IF GEO ALREADY ABSOLUTE TIME  
 51 51 CE 0123 273 BICB2 #TQE\$M\_ABSOLUTE, TQE\$B\_RQTYPE(R2) :Indicate not absolute  
 50 50 CE 0126 274 MNEG L R1, R1 :NEGATE EXPIRATION TIME  
 51 00 D9 0129 275 MNEG L R0, R0 :  
 50 58 C0 012C 276 SBWC #0, R1 :  
 51 59 D8 012F 277 ADDL R8, R0 :CALCULATE REAL EXPIRATION TIME  
 06 0B A2 03 00 ED 0132 278 ADWC R9, R1 :  
 12 12 0138 279 10\$: CMPZV #0, #3, TQE\$B\_RQTYPE(R2), #TQE\$C\_WKREPT :REPEAT WAKEUP REQUEST?  
 55 50 C0 013A 280 BNEQ 20\$ :IF NEQ NO  
 56 51 D8 013D 281 ADDL R0, R5 :CALCULATE NEXT EXPIRATION TIME  
 56 59 D1 0140 282 ADWC R1, R6 :  
 07 1F 0143 283 CMPL R9, R6 :CURRENT TIME AFTER NEXT TIME?  
 12 1A 0145 284 BLSSU 20\$ :IF LSSU NO  
 55 58 D1 0147 285 BGTRU 30\$ :IF GTRU YES  
 0D 1A 014A 286 CMPL R8, R5 :CURRENT TIME AFTER NEXT TIME?  
 55 52 D0 014C 287 BGTRU 50\$ :IF GTRU YES  
 9E 16 014F 288 20\$: MOVL R2, R5 :COPY ADDRESS OF TIME QUEUE ENTRY  
 FEAC' 30 0151 289 JSB @ (SP) + :FILL IN REQUEST DEPENDENT PARAMETERS  
 50 01 3C 0154 290 BSBW EXE\$INSTIMQ :INSERT ENTRY IN TIME QUEUE  
 08 11 0157 291 MOVZWL #SS\$\_NORMAL, R0 :SET NORMAL COMPLETION STATUS  
 50 52 D0 0159 292 BRB 40\$ :  
 FEA1' 30 015C 293 30\$: MOVL R2, R0 :SET ADDRESS OF TIME QUEUE ENTRY  
 50 0184 8F 3C 015F 294 BSBW EXE\$DEANONPAGED :DEALLOCATE TIME QUEUE ENTRY  
 0164 295 MOVZWL #SS\$\_IVTIME, R0 :SET INVALID TIME COMPLETION STATUS  
 04 0167 296 40\$: SETIPL #0 :ALLOW INTERRUPTS  
 0168 297 RET :  
 0168 298 :  
 0168 299 .END :  
 30

ACBSM\_QUOTA  
 ASTADR  
 BUILDTQE  
 EFN  
 EXESALLOCTQE  
 EXESDEANONPAGED  
 EXESGQ\_SYSTIME  
 EXESINSTIMQ  
 EXESNAMPID  
 EXESSCHDWK  
 EXESSETIMR  
 IPLS\_ASTDEL  
 IPLS\_SYNCH  
 IPLS\_TIMER  
 JIB\$0\_TQCNT  
 LOGNAM  
 PCB\$L\_EFWM  
 PCB\$L\_JIB  
 PCB\$L\_PID  
 PCB\$L\_STS  
 PCB\$V\_SSRWAIT  
 PCB\$W\_ASTCNT  
 PIDADR  
 PRS\_IPL  
 PSL\$S\_PRVMOD  
 PSL\$V\_PRVMOD  
 REQIDT  
 RSNS\_ASTWAIT  
 SCH\$CLREF  
 SCH\$GL\_CURPCB  
 SCH\$GL\_RESMASK  
 SCH\$GQ\_MWAIT  
 SCH\$WAIT  
 SSS\_ACCVIO  
 SSS\_EXQUOTA  
 SSS\_IVTIME  
 SSS\_NORMAL  
 TMDAYTIM  
 TQESB\_EFN  
 TQESB\_RMOD  
 TQESB\_RQTYPE  
 TQESC\_TMSNGL  
 TQESC\_WKREPT  
 TQESC\_WKSNGL  
 TQESL\_AST  
 TQESL\_ASTPRM  
 TQESL\_PID  
 TQESL\_RQPID  
 TQESM\_ABSOLUTE  
 TQESQ\_DELTA  
 WKDAYTIM  
 WKREPTIM

= 00000040  
 = 0000000C  
 = 000000E9 R 01  
 = 00000004  
 \*\*\*\*\* X 01  
 00000000 RG 01  
 00000062 RG 01  
 = 00000002  
 = 00000008  
 = 00000008  
 = 00000034  
 = 00000008  
 = 0000004C  
 = 00000080  
 = 00000060  
 = 00000024  
 = 0000000A  
 = 00000038  
 = 00000004  
 = 00000012  
 = 00000002  
 = 00000016  
 = 00000010  
 = 00000001  
 \*\*\*\*\* X 01  
 = 0000000C  
 = 0000001C  
 = 00000184  
 = 00000001  
 = 00000008  
 = 00000029  
 = 00000028  
 = 00000008  
 = 00000000  
 = 00000006  
 = 00000002  
 = 00000010  
 = 00000014  
 = 0000000C  
 = 0000002C  
 = 00000008  
 = 00000020  
 = 0000000C  
 = 00000010

```
+-----+
! Psect synopsis !
+-----+
```

## PSECT name

	Allocation	PSECT No.	Attributes
. ABS	00000000 ( 0.)	00 ( 0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
: BLANK :	00000168 ( 360.)	01 ( 1.)	NOPIC USR CON REL LCL NOSHR EXE RD WRT NOVEC BYTE
\$ABSS	00000000 ( 0.)	02 ( 2.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE

```
+-----+
! Performance indicators !
+-----+
```

## Phase

	Page faults	CPU Time	Elapsed Time
Initialization	30	00:00:00.07	00:00:00.26
Command processing	106	00:00:00.54	00:00:02.02
Pass 1	272	00:00:07.64	00:00:17.33
Symbol table sort	0	00:00:01.22	00:00:02.52
Pass 2	71	00:00:01.55	00:00:02.69
Symbol table output	7	00:00:00.08	00:00:00.09
Psect synopsis output	1	00:00:00.02	00:00:00.02
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	489	00:00:11.12	00:00:24.93

The working set limit was 1200 pages.

43678 bytes (86 pages) of virtual memory were used to buffer the intermediate code.

There were 50 pages of symbol table space allocated to hold 803 non-local and 11 local symbols.

299 source lines were read in Pass 1, producing 18 object records in Pass 2.

19 pages of virtual memory were used to define 18 macros.

```
+-----+
! Macro library statistics !
+-----+
```

## Macro library name

## Macros defined

\$255\$DUA28:[SYS.OBJ]LIB.MLB;1	8
\$255\$DUA28:[SYSLIB]STARLET.MLB;2	7
TOTALS (all libraries)	15

893 GETS were required to define 15 macros.

There were no errors, warnings or information messages.

MACRO/LIS=LI\$:\$SYSSCHEVT/0BJ=0BJ\$:\$SYSSCHEVT MSRC\$:\$SYSSCHEVT/UPDATE=(ENH\$:\$SYSSCHEVT)+EXECMLS/LIB

0388 AH-BT13A-SE  
VAX/VMS V4.0

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